Similar Triangles
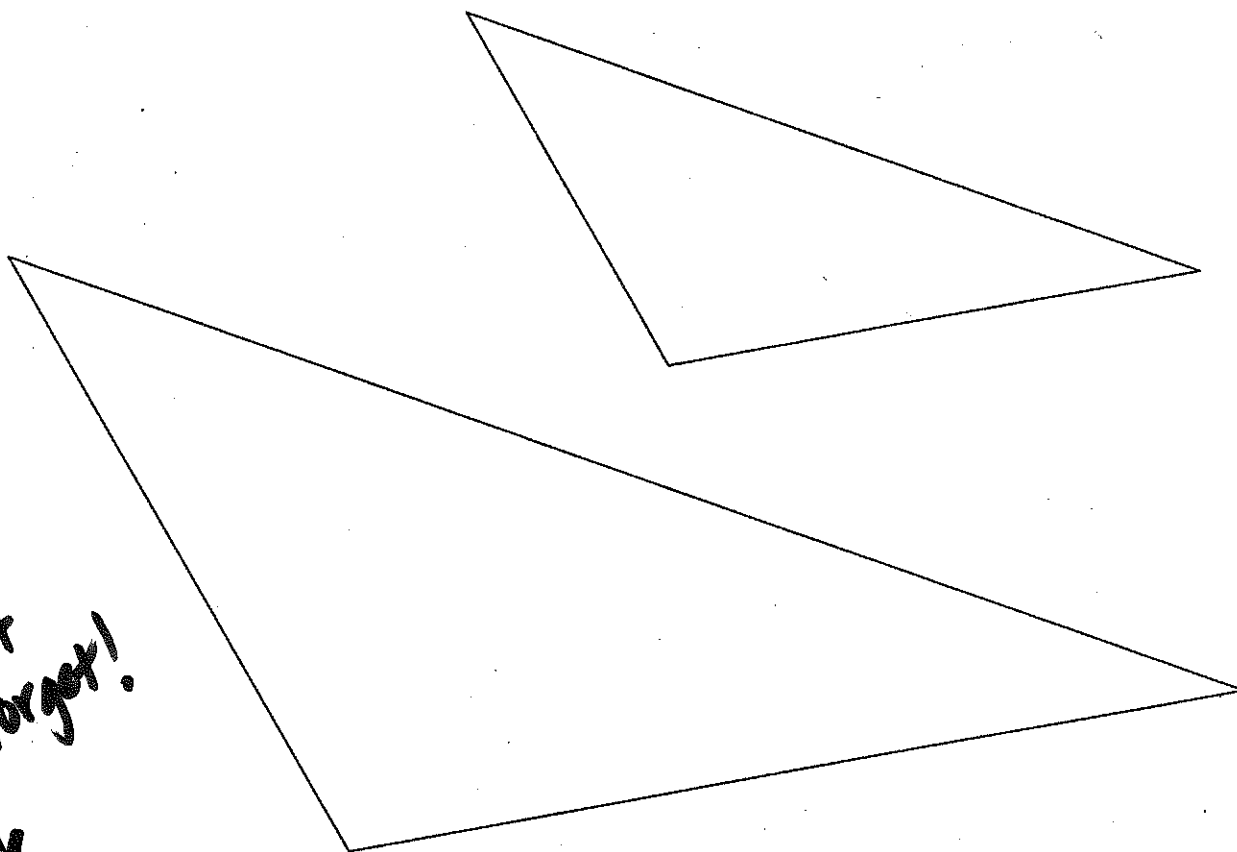
#67 a.

b. Label sides + angles on diagram.

↑

use
cm!

c. Show dilation point.

Don't
forget!

CHECK ANSWERS TO #67,69 70,78   #67b,c→investigate figures on resource page

All are similar.   SAS~   AA~   AA~   Yes   87°, 68°, 25°

All are similar.

SAS~ is a similarity condition if corresponding angles congruent, corresponding sides proportional.

Corresponding angles congruent, corresponding sides proportional.

Only need 2 pairs of congruent angles for AA~ (since 3rd pair has to be equal as well due to Triangle Sum Thm)

Not similar because corresponding angles are not congruent.

Not similar because corresponding sides are not proportional (different scale factor.)

CHECK ANSWERS TO #79,80,81,82   →Reminder that Area of Trapeziod is 1/2 (b_1+b_2)h

True   True   False   210   RIGHT ~ RONGW   ABCD ~ EVOL   TAC ~GDO

$(x+8)(x+5) = x^2+13x+40$ $(x-4)(2z-3y+5) = 2xz-3xy+5x-8z+12y-20$ $2y(x+4) = 2xy+8y$

  →*#80 be sure to write given statement AND its converse, then state true or false*